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1 **A complex-number multiplier using radix-4 digits**
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Pages:84 - 90

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2 **Adaptation of the Mactaggart and Jack complex multiplication algorithm for floating-point operators**
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Pages:1324 - 1326

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12 The modified quadratic residue number system (MQRNS) for complex high-speed signal processing

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3	501	708/501,495,404,300.ccls. and complex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:07
4	5663	(("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or (period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and (708/501,495,404,300.ccls. and complex)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:08
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–	22741	708/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:19
–	780	(multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:24
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–	14	(((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:57
–	189	708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:58
–	150	(cycle$1 or clock$1 or period$1) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:59
–	42	(("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:59

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-	28	`((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))) not ((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or.clock$1))) and 708/622.ccls.)`	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:59
-	5661	`(("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or (period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)`	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:07
-	9	`((("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)`	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:08
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-	198	`(((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)`	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:08
-	191	`((((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or_multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))`	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:08

| | | 186 | (((((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))) not ((((("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/08/30 15:09 |
| — | | 186 | ((((((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))) not ((((("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))))) and ("2" or two) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/08/30 15:09 |

| | | 186 | ((((((((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))))) not ((((("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))))) and ("2" or two)) and complex | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/08/30 15:09 |
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| | | 0 | ((((((((((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))))) not (((((("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))))) and ("2" or two)) and complex) and 708/490.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/08/30 15:15 |
| | | 0 | ((((((((((cycle$1 or clock$1 or period$1)).ti. or ((cycle$1 or clock$1 or period$1)).clm. or ((cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))))) not (((((("2" or two) adj (cycle$1 or clock$1 or period$1)).ti. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).clm. or (("2" or two) adj (cycle$1 or clock$1 or period$1)).ab.) and ((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.)) not (((((multiplier$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/$.ccls.) and ((two or "2") adj (cycle$1 or period$1 or clock$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle$1 or clock$1 or period$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))))) and ("2" or two)) and complex) and 708/200.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/08/30 15:15 |

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